



1/20

SGK	<sup>256</sup> TTSTFCGTPPEYLAPE..... <sup>422</sup> FLGFSYAPP
PKBα	<sup>308</sup> TMKTFCGTPEYLAPE..... <sup>473</sup> FPQFSYSAS
p70 S6K	<sup>229</sup> VTHTFCGTIEYMAPE..... <sup>389</sup> FLGFTYVAP
PKCδ	<sup>507</sup> RASTFCGTPDYIAPE..... <sup>664</sup> FAGFSFVNP

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SEC ID No: 45

Figure 1

Figure 11

Q R K P P U  
L P V P P E L P D H C Y R M N S  
CTCCCTGTCCCCGAGAGCTGCTATCATCTCTACAGATGAACTCT





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\*\* SEQ ID NO: 4

\* SEQ ID NO: 3

SGK2β SEQ ID NO: 8

hSGK1	MTVKTEAAKG	TLTYSRMRGM	VAILIAFMKO	RRMGILNIDFIO	KIANNNSYACK
hSGK2	MQGLLTSGRK	PSGGGRCTGR	GGWRGQWCLK	PWMGGAD---	-PPTPTLSCL
mSGK2*					
hSGK3	MALRIFAKRI	FGD-----	-NFDPLFTKO	RRAGLNEFIO	NLVRYPELYN

SGK2α SEQ ID NO: 1

hSGK1	HPVQSLKI	SCQOPELMN	ANPSPPSP-	---S-QQINL	GPSSNPFAKP
hSGK2	LLFVPPPLPD	HCYRMNSSPA	GTPSQPSR	---ANGNINL	GPSANENACP
mSGK2		---MASSPV	GVPSQPSR	---ANGNINL	GPSANENARP
hSGK3	HPDVRAFLQM	DSPKHQSDPS	EDEDERSQK	LHSTSONINL	GPSNPFAKP

hSGK1	SDFHEIRVIG	RGSEFGVLLA	RHNAAEVFYA	VKVLQKRAIL	KRKEBNHIMS
hSGK2	TDDEIRVIG	RGNYGKVLLA	KRKSDGAFYA	VKVLQKRSIL	KRKEQSHIMA
mSGK2	TDDEIRVIG	RGNYGKVLLA	KRKSDGAFYA	VKVLQKRSIL	KRKEQSHIMA
hSGK3	TDDEIRVIG	RGSEFGVLLA	KRKIDGAFYA	VKVLQKRTVL	KRKEQSHIMA

hSGK1	ERNVILKKNVK	HEEIVGLHFS	FQTADRILEV	LDYVNGGGEIF	YHLQRPQFL
hSGK2	ERSVILKKNVR	HEEIVGLHYS	FQTEERILEV	LDYVNGGGEIF	PHLQRRSFL
mSGK2	ERNVILKKNVR	HEEIVGLHYS	FQTEERILEV	LDYVNGGGEIF	PHLQRRSFL
hSGK3	ERNVILKKNVK	HEEIVGLHYS	FQTEERILEV	LDYVNGGGEIF	PHLQRRSFL

hSGK1	EPRAREYAAE	IASALGYLHS	LNIMYRDLKP	ENILHDSQGH	IVLTDEGLCK
hSGK2	EPRAREYAAE	VASAIGYLHS	LNILYRDLKP	ENILHDCOGH	VVLTDEGLCK
mSGK2	EPRAREYAAE	VASAIGYLHS	LNILYRDLKP	ENILHDCOGH	VVLTDEGLCK
hSGK3	EPRAREYAAE	IASALGYLHS	IKLIVYRDLKP	ENILHDSVGH	VVLTDEGLCK

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hSGK1	BNIBHNSITIS	TECGIPEYIA	PEVLEKQPYD	RAVDNWCIGA	VLYEMLYGLP
hSGK2	EGVPEHNTIS	TECGIPEYIA	PEVLRKEPYD	SAVDNWCIGA	VLYEMHIGLP
mSGK2	ECVEPEBTIS	TECGIPEYIA	PEVLRKEPYD	RAVDNWCIGA	VLYEMHIGLP
hSGK3	EGIAISDTIT	TECGIPEYIA	PEVLRKQPYD	NTVDNWCIGA	VLYEMLYGLP

hSGK1	FFYSRNTABM	YDNILNKPLQ	LKPNITNSAR	HLLEGTLQKD	RTKRLGAKDD
hSGK2	FFYSQDVQOM	YENITHQPLQ	IFGGRTVAAC	DLLOSLHDKD	CRORLGSKAD
mSGK2	FFENTLVAQM	YENITHQPLQ	IFGGRTVAAC	DLLOGLHDKD	CRORLGSKED
hSGK3	FFYQREDAEM	YDNILNKPLS	LRFGVSLTAW	SLLEBLLKED	RQNRLGAKED

hSGK1	FMELRSHVFF	SLINWDDLIN	KRIIPFFNPN	VSGPNELRHF	DPEETEEVP
hSGK2	FLRLNNHVET	SPINWDDLH	KRIIPFFNPN	VIGPADLKH	DPEETQEA
mSGK2	FLRLNNHVET	SPINWDDLH	KRIIPFFNPN	VEGFADLKH	DPEETQEA
hSGK3	FLRLNNHVET	ESLSWDDLH	KRIIPFFNPN	VAGPDILRHF	DTAETBETVP

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hSGK1	NSIGKSPDSV	LVTASVKEAA	EAFIGESYAP	ETDSRL--
hSGK2	KSIGKSPDTV	---ASSSCAS	SAFIGESYAP	EDDHLHDC
mSGK2	KSIGKSPDTV	---ASSSCAS	SAFIGESYAP	EDDHLHDC
hSGK3	YSVCVSSDYS	IVNASVLEAD	DAFVGFSYAP	PSEDLFLL-

Figure 13